

**STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER QUALITY
BUREAU OF NONPOINT POLLUTION CONTROL**

ENGINEER'S REPORT FOR INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEMS
(SUPPLEMENT TO THE TREATMENT WORKS APPROVAL PERMIT APPLICATION FORM TWA-1)

1. Application Signed By: _____ Position: _____
Date of Application _____

2. Engineering Plans and Specifications:

Name and Address of
Engineering Firm _____

Prepared by _____ Licensed Engineer

Plans entitled: _____

Date of Plans _____ Date of Last Revision _____

3. Project Location _____

County _____ Municipality _____
Lot(s) _____ Block(s) _____

4. Class of Construction - Check all applicable categories:

- ☐ New Construction
☐ Alteration to an existing system
☐ Expansion
☐ Change in Use
☐ Other - Describe _____

5. Type of Wastes:

- ☐ Sanitary Sewage Only
☐ Other - Specify _____

6. Nature of Facility to be Served:

- ☐ Residential - Indicate Number of Dwelling Units _____
☐ Commercial/Institutional - Indicate Number of Commercial Units _____
Specify Type of Establishment _____
☐ Other - Indicate Number of Units _____

Specify Type of Establishment _____

7. Design Flow, GPD _____

Method of Determination:

☐ Method specified in N.J.A.C. 7:9A-7.4
(Specify criteria used _____)

☐ Actual Water Use Data

☐ Other

Specify Method Used _____
(Provide supporting documentation)

8. Indicate Reason Why Treatment Works Approval is Required:

☐ Design or construction of one or more components of the system will not be in conformance with N.J.A.C. 7:9A;

☐ System will serve more than one property, dwelling, commercial unit or other realty improvement.

Indicate the total number of realty improvements to be served _____

☐ The proposed system will serve five or more realty improvements and/or receive a design flow greater than 2000 GPD, therefore a New Jersey Pollutant Discharge Elimination System (NJPDES) permit will be required.

Indicate NJPDES permit status below

☐ NJPDES - Permit No.: _____

Effective Date _____; Expiration Date _____

☐ NJPDES - Permit Exemption; Date: _____

☐ System utilizes unproved technology or is otherwise experimental in nature;

☐ System is designed to provide wastewater treatment in order to meet effluent quality limitations or ground water quality standards as prescribed by applicable State or Federal regulations or statutes; or

☐ System will serve multiple units in a campground.

9. For applications which will not be regulated by NJPDES as indicated in section 8 above, the following information **must** be provided:

a. For those aspects of design and construction which are covered by the Departments Standards for Individual Subsurface Sewage Disposal Systems (N.J.A.C. 7:9A), indicate below whether each aspect is in conformance with the Standards. Check "**yes**" if the standard listed has been complied with, "**no**" if the standard below has not been complied with, and "**N/A**" if the standard listed does not apply to the proposed design.

For all negative responses, attach a separate sheet or sheets with the question number, the reason for not conforming with the standard, and the information regarding the proposed designs ability to adequately treat and dispose of sewage.

General Requirements:

Yes No N/A

Subchapter 4: Site Evaluation and System Location

1. General provisions for site evaluation
2. Location generally
3. Distances
4. Slope
5. Surface drainage
6. Surface flooding
7. Freshwater wetlands
8. Area reserved for sewage disposal

___	___	___
___	___	___
___	___	___
___	___	___
___	___	___
___	___	___
___	___	___
___	___	___

Subchapter 5: Determination of Soil Suitability

1. General provisions for the determination of soil suitability
2. Requirements for soil profile pits and borings
3. Terminology required for soil logs
4. Criteria for determination of soil suitability
5. Rock substrata
6. Excessively coarse horizons and substrata
7. Hydraulically restrictive horizons and substrata
8. Criteria for recognition of zones of saturation
9. Hydraulic head test
10. Disturbed ground

___	___	___
___	___	___
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Subchapter 6: Permeability Testing

1. General provisions for permeability testing
2. Tube permeameter test
3. Soil permeability class rating
4. Percolation test
5. Pit bailing test
6. Piezometer test
7. Basin flooding test

___	___	___
___	___	___
___	___	___
___	___	___
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___	___	___
___	___	___

Subchapter 7: General Design and Construction Requirements

1. Design requirements
2. Construction
3. Types of waste
4. Volume of sanitary sewage
5. Separate disposal of greywater and blackwater
6. Type of system
7. Building sewer

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___	___	___
___	___	___
___	___	___
___	___	___
___	___	___
___	___	___

Subchapter 8: Pretreatment Units

1. Grease traps
2. Septic tanks

___	___	___
___	___	___

Subchapter 9: Effluent Distribution Networks

1. General requirements for effluent distribution
2. Dosing tanks
3. Connecting and delivery pipes
4. Distribution boxes
5. Laterals; gravity distribution
6. Pressure dosing networks
7. Design procedure for pressure dosing networks

Subchapter 10: Disposal Fields

1. General design requirements for disposal fields
2. Disposal field sizing requirements
3. Specific requirements for conventional disposal field installations
4. Specific requirements for soil replacement disposal field installations
5. Specific requirements for mounded disposal field installations
6. Specific requirements for mounded soil replacement disposal field installations
7. Interceptor drains

[illegible]

Subchapter 11: Seepage Pits

1. Site/soil requirements
2. Design requirements
3. Construction requirements

_____	_____	_____
_____	_____	_____
_____	_____	_____

b. If the proposed design will include wastewater treatment devices or other components not covered in the Department's Standards, indicate below what these components are, why they are being proposed, and what their function will be. Provide detailed plans and specifications for these components and include within the technical report for the project, performance data or other information relevant to the suitability of the component for the proposed use.

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10. Engineer's Certification:

I hereby certify that all aspects of the design of this project comply with the requirements of the Department's Standards for Individual Subsurface Sewage Disposal Systems (N.J.A.C. 7:9A) with the exception of those aspects identified by a "no" response in section 9(a) or by the information which I have provided under item 9(b), above.

Signature of Design Engineer

Name and Date (print)

Professional Engineer's Embossed Seal

11. Certification by the Administrative Authority or Authorized Agent of the Administrative Authority:

I hereby certify that the engineering plans and specifications referred to in section 2, above have been reviewed by this agency and have been found to be in conformance with the requirements of local ordinances. I further certify that the design of the proposed system has been found to be in conformance with the requirements of N.J.A.C. 7:9A with the exception of those aspects identified in section 9, above. Based upon these determinations, this agency has determined that the design is approvable subject to the issuance of a Treatment Works Approval by the State Department of Environmental Protection and Energy.

Signature of Administrative Authority
or Authorized Agent

Date

Name/Title:

Agency:

Address:

Phone #: